SPECIFICATIONS LA460

FEATURES

- Compact Virtual Array Technology™ three-way system
- Horn-loaded MF/HF (60° x 45° coverage pattern)
- 15-in LF/8-in MF/1.4-in exit HF
- Switchable powering: full range passive or bi-amp (passive LF/MF)
- For portable use or permanent installation

DESCRIPTION

A 3-way full range system in a trapezoidal enclosure. Includes a 15-in woofer, a horn-loaded 8-in midrange cone and a 1.4-in exit/1.75-in voice coil compression driver on a 60° x 45° constant directivity horn. The powering mode is switchable: passive (3-way crossover) or bi-amplified (passive low/mid crossover).

APPLICATIONS

The LA460 applies Virtual Array Technology to small venue performance in both portable applications and permanent installations. With EAW's mathematically correct midrange flare, pattern control is maximized throughout the vocal region providing exceptional speech intelligibility in a compact enclosure. Six year warranty.

Applications include:

Band PA Dance Clubs Portable A/V

PERFORMANCE

Frequency Response (1 Watt @ 1m)	
±3 dB	62 Hz to 20 kHz
-10 dB	45 Hz
Axial Sensitivity (dB SPL, 1 Watt @ 1m)	
Full Range	97
Bi-amped LF/MF	97
Bi-amped HF	108
Impedance (Ohms)	
Full Range	8
Bi-amped LF/MF	8
Bi-amped HF	8
Power Handling, AES Standard (Watts)	
Full Range	500
Bi-amped LF/MF	500
Bi-amped HF	150
Calculated Maximum Output (dB SPL @ 1m)	
Full Range Peak	130.0
Bi-amped LF/MF Peak	130.0
Bi-amped HF Peak	136.0
Full Range Long Term	124.0
Bi-amped LF/MF Long Term	124.0
Bi-amped HF Long Term	130.0
Nominal Coverage Angle, -6 dB Points (degrees)	
Horizontal	60
Vertical	45
Recommended High-Pass Frequency	
24 dB/Octave	45 Hz

PHYSICAL

LF Subsystem	1x 15-in, vented
MF Subsystem	1x 8-in cone, horn-loaded
HF Subsystem	1x 1.4-in exit/1.75-in voicecoil compression driver on constant directivity horn
Configuration	3-way, full range
Powering Mode	Switchable: passive (3-way crossover) or bi-amplified (passive LF/MF crossover)
Controls (switches, knobs)	Powering mode switch
Cabinet Type (shape)	Trapezoidal
Enclosure Materials	Baltic birch plywood
Finish	Black polyurethane
Connectors	2x Neutrik NL4 Speakon
Suspension Hardware	(3) 3-position flytracks with integral 3/8"-16 threaded mounting points (2 top and 1 back)
Grille	Vinyl Coated Perforated Steel, Arced
Options	CP460 caste pallet (255042) Flyclip w/ring (179001) Flyclip w/hook (179002)
Recommended Complementary Systems	
Sub Bass	LA118/LA128

Dimensions	**Inches**	**Millimeters**
Height	36.0	914
Width (Front)	20.76	527
Width (Rear)	14.23	364
Depth	19.47	495
Trapezoid Angle	10° per Side	

Weights	**Pounds**	**Kilograms**
Net Weight	114	51.8
Shipping Weight	125	56.5

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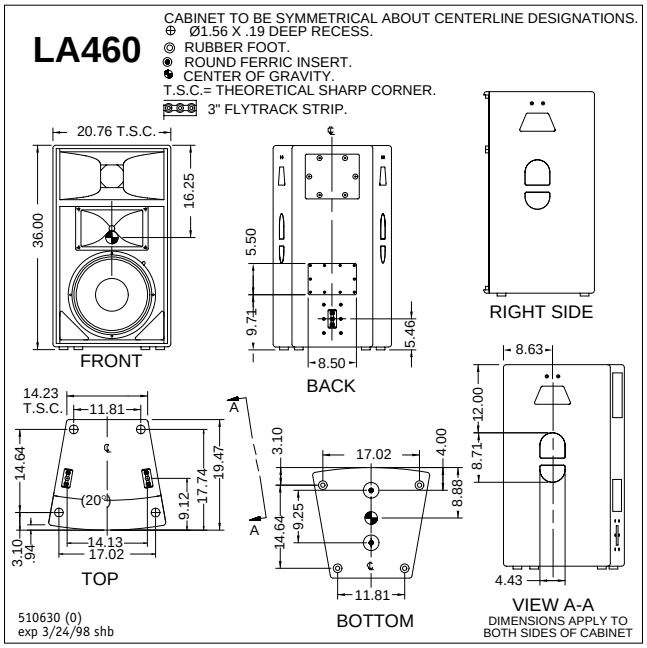
DIMENSIONAL DRAWING



A & E SPECIFICATIONS

The three-way full range loudspeaker systems shall incorporate a 15-in LF transducer, an 8-in MF transducer and a 1.4-in exit/1.75-in voice coil compression driver HF transducer.

The LF driver shall be mounted in a vented enclosure tuned for optimum low frequency response. The MF driver shall be loaded into a midrange horn constructed of 1/8-in birch plywood reinforced with high density polyurethane foam. The MF horn shall incorporate a phase/displacement plug. The HF driver shall be loaded on a constant directivity horn with a nominal coverage pattern of 60° (h) x 45° (v).

Powering mode shall be switchable between full range passive and bi-amplified operation. In full range passive mode, an internal passive filter network shall provide fourth order acoustical crossover and system equalization between the low, mid and high frequency sections. In bi-amplified mode, an internal passive filter network shall provide fourth order acoustical crossover and system equalization between the low and mid frequency sections.

System frequency response shall vary no more than ±3 dB from 62 Hz to 20 kHz measured on axis. The full range system shall produce a Sound Pressure Level (SPL) of 97 dB SPL on axis at 1 meter with a power input of 1 Watt and shall be capable of producing a peak output of 130 dB SPL on axis at 1 meter. The low/mid section in bi-amplified mode shall produce a Sound Pressure Level (SPL) of 97 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 130 dB SPL on axis at 1 meter. The high frequency section in biamplified mode shall produce a Sound Pressure Level (SPL) of 108 dB SPL on axis at 1 meter with a power input of 1 Watt, and shall be capable of producing a peak output of 136 dB SPL on axis at 1 meter. The full range system shall handle 500 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms. The low/mid section in biamplified mode shall handle 500 Watts of amplifier power (AES Standard) and shall have a nominal impedance of 8 Ohms. The high frequency section in biamplified mode shall handle 150 Watts of amplifier power and shall have a nominal impedance of 8 Ohms.

The loudspeaker enclosure shall be trapezoidal in shape. It shall be constructed of 1/2-in thickness void-free cross-grain-laminated Baltic birch plywood and shall employ extensive internal bracing. It shall be finished in black catalyzed polyurethane. Input connectors shall be 2x Neutrik NL4 Speakon. A total of 3x 3-position flytracks with integral 3/8"-16 threaded mounting points (2 top and 1 back) shall be provided. The front of the loudspeaker shall be covered with an arced, vinyl-coated, perforated steel grille.

The 3-way full range loudspeaker shall be the EAW model LA460.

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